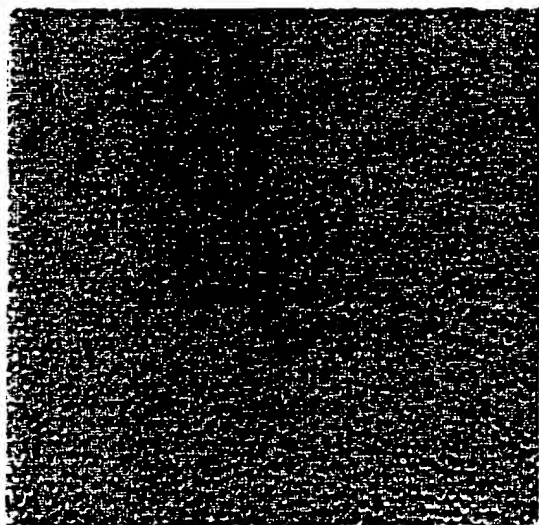
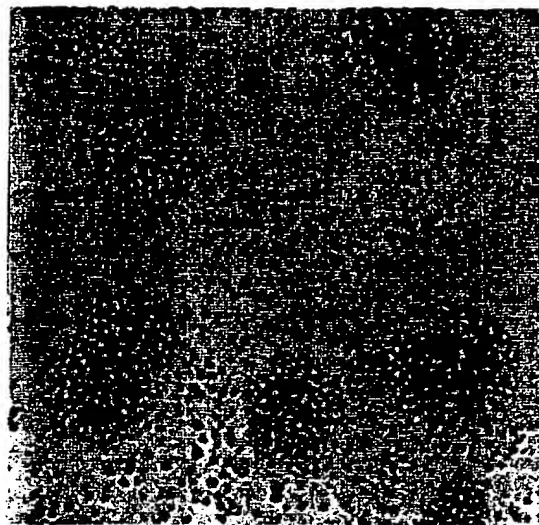


Figure 1



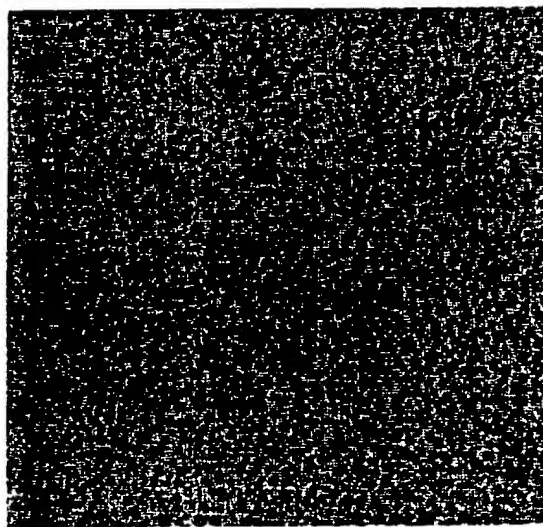
(a)



(b)



(c)



(d)

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Figure 2

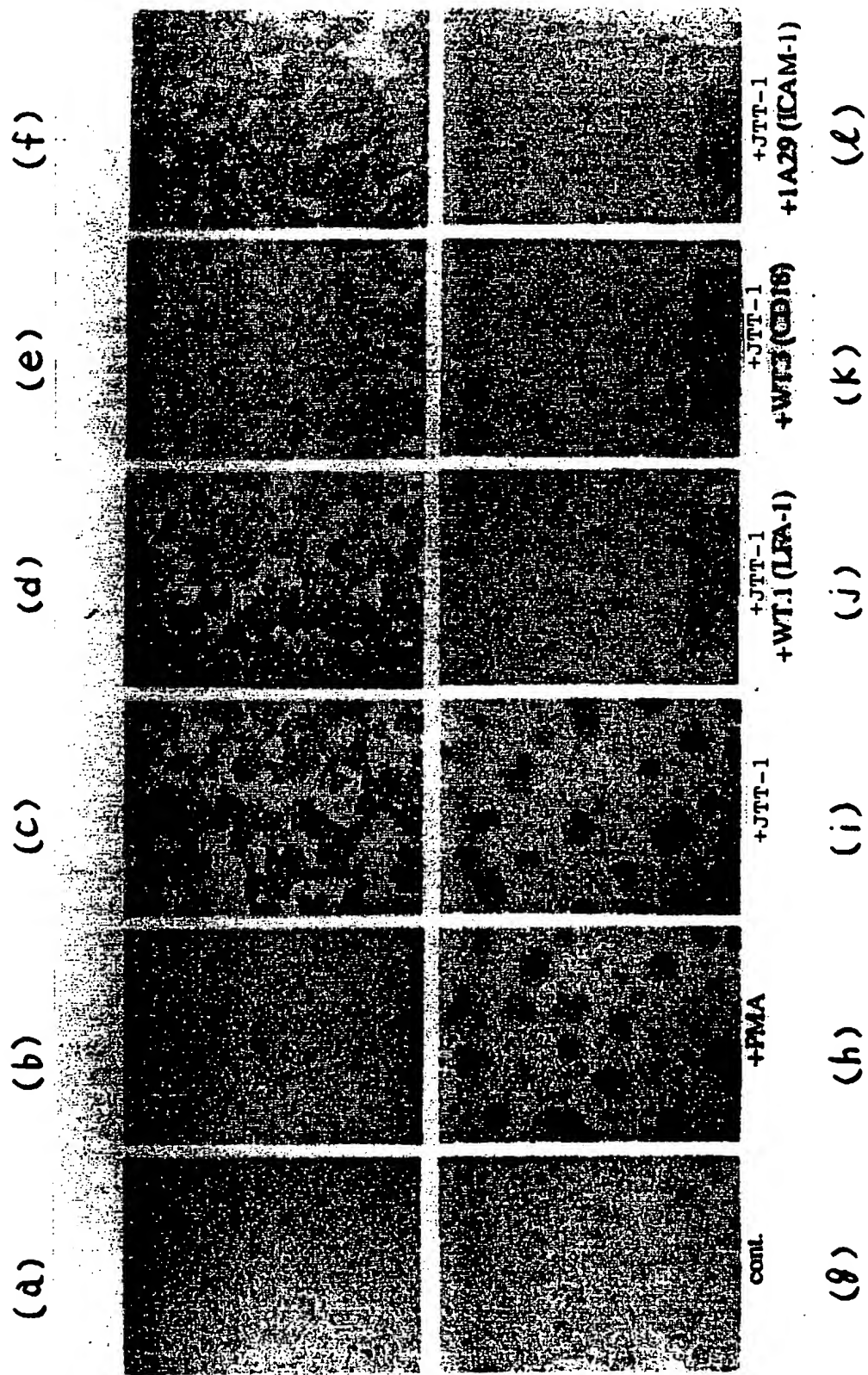


Figure 3

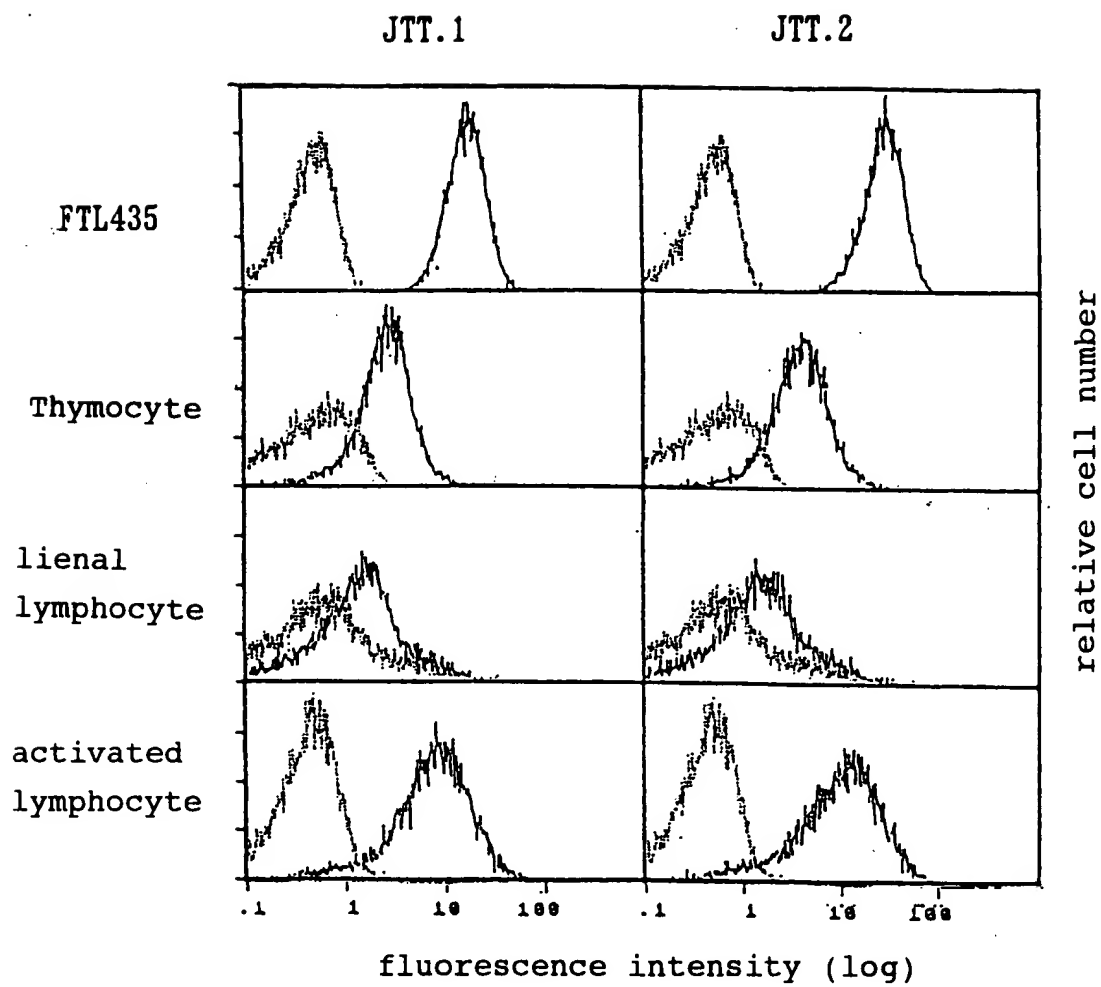


Figure 4

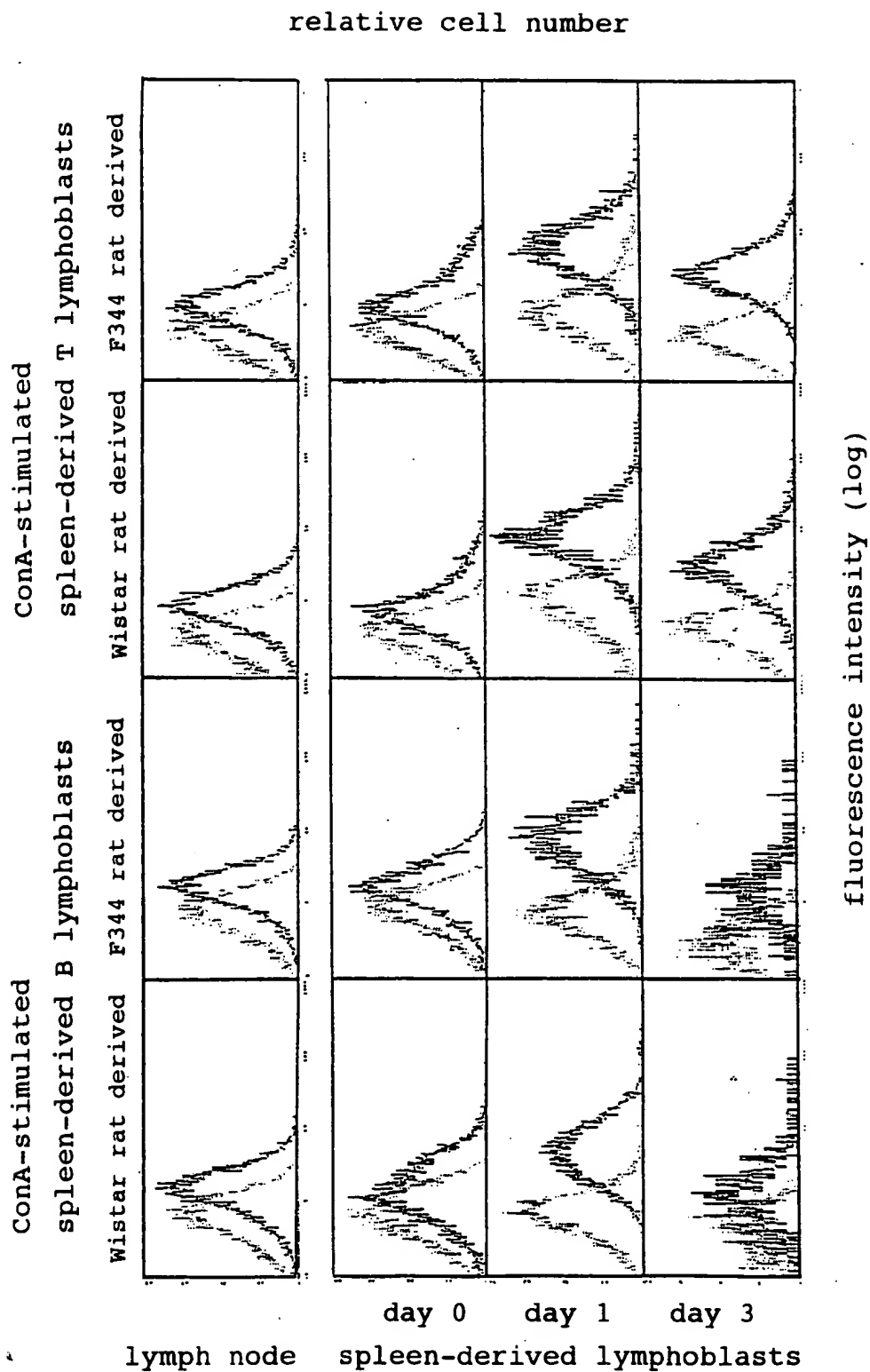
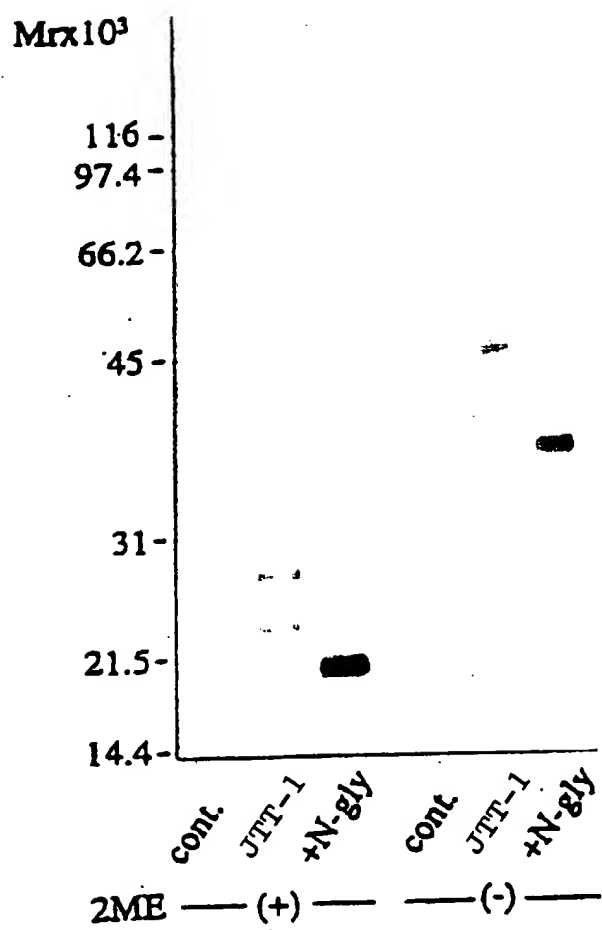
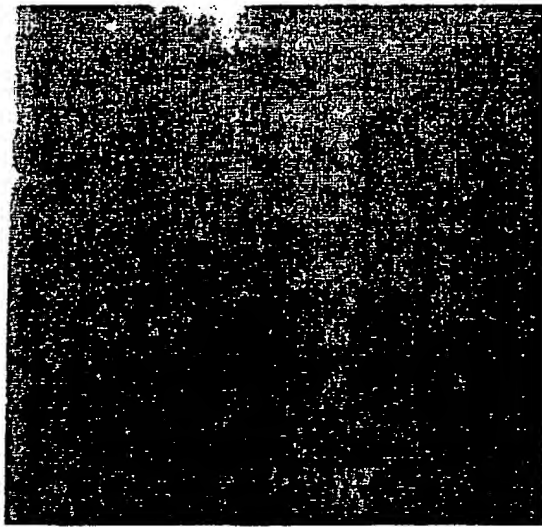


Figure 5

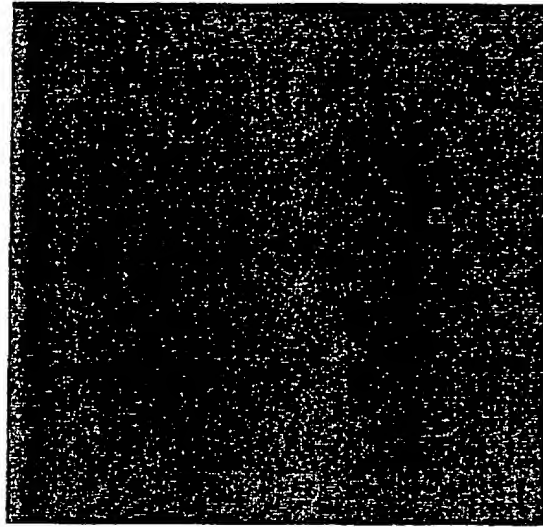


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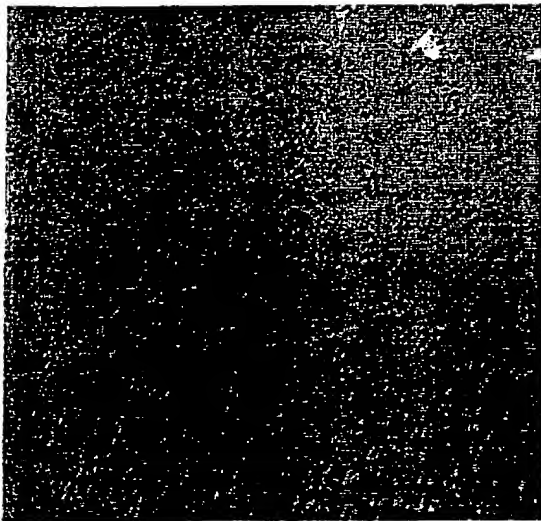
Figure 6



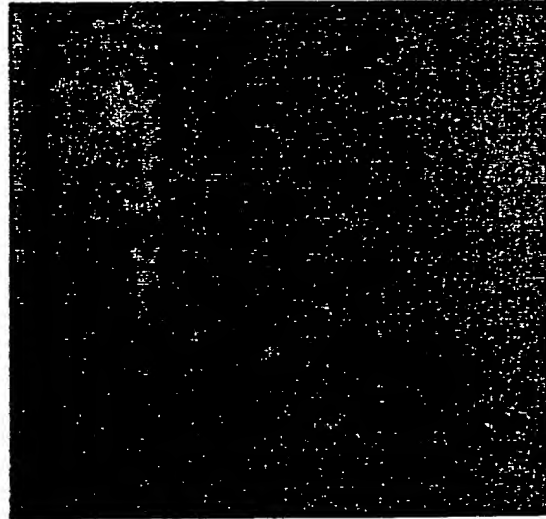
(a)



(b)



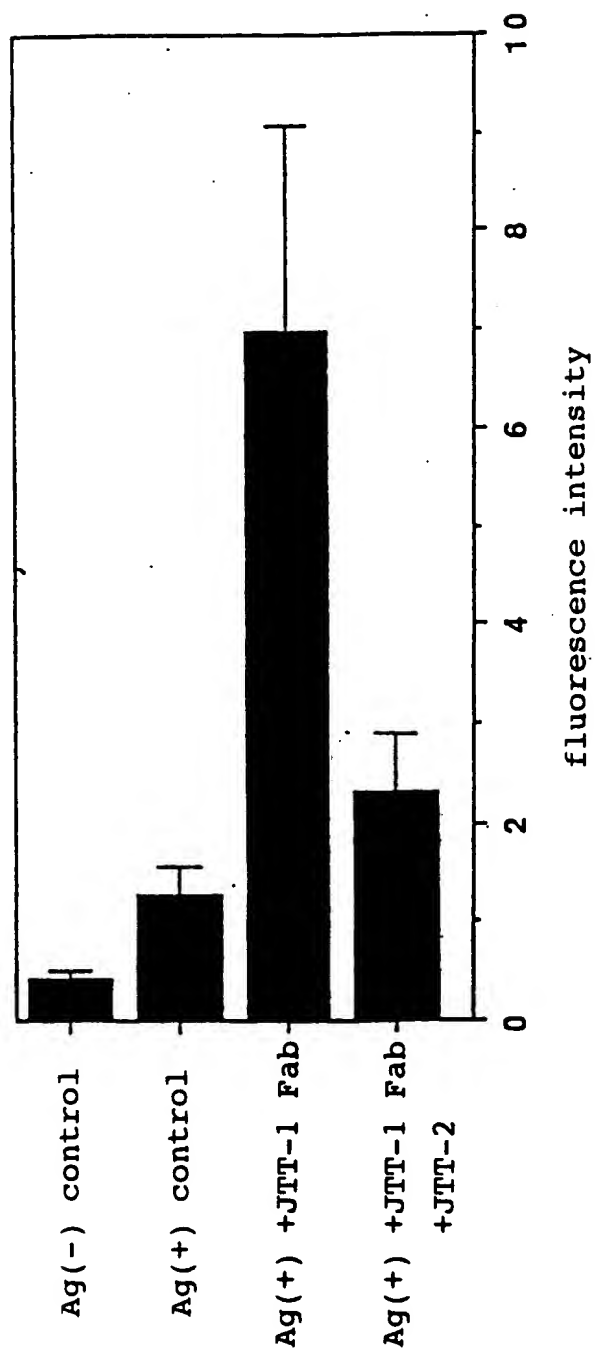
(c)



(d)

09303001.082699

Figure 7



669280" T55E8E60

Figure 8

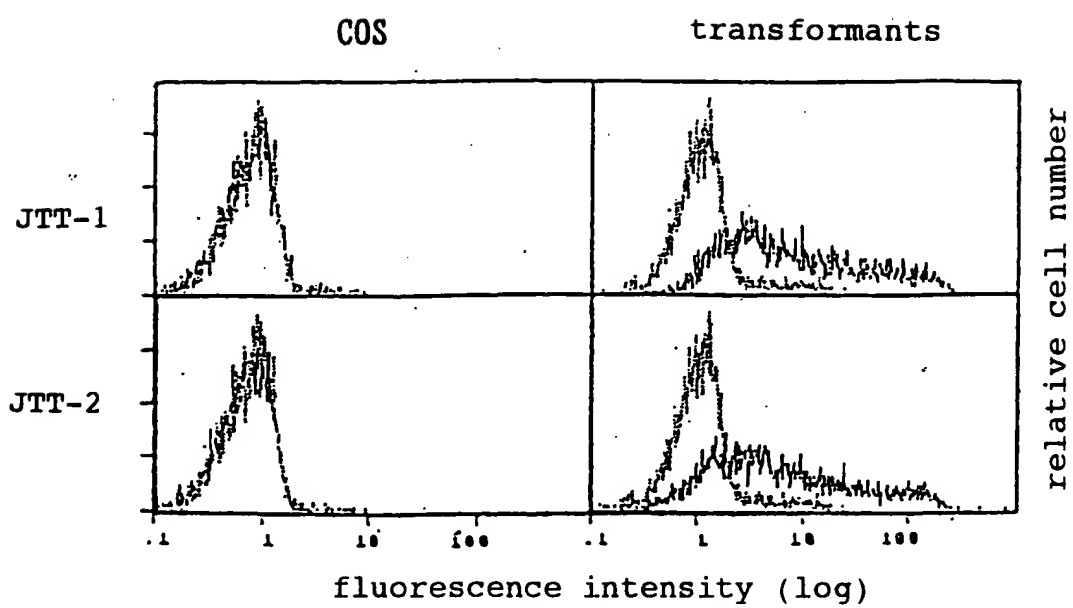


Figure 9

669280"TSSEE60

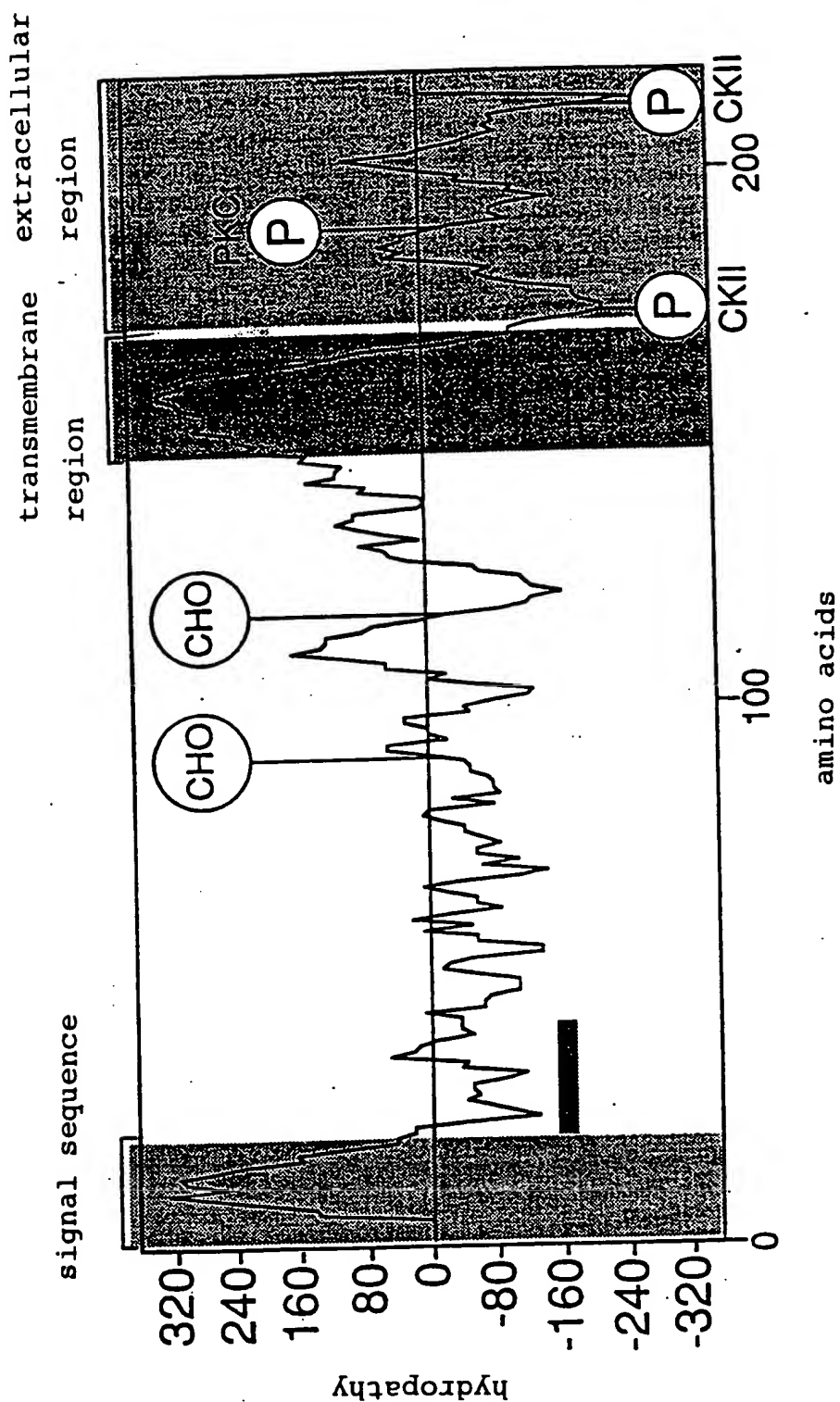


Figure 10

00000000000000000000000000000000

human	M	K	S	G	L	W	Y	F	F	L	F	C	L	R	I	K	V	L	T	G	E	I	N	G	S	A	N	Y	E	M	F	I	F	H	N	G	G	V	Q	I	L	C	K	Y	P	D	I	V	Q	Q	50			
rat	M	K	P	Y	P	S	C	V	F	V	V	F	C	F	L	I	K	L	T	G	E	L	N	D	L	A	N	H	R	M	F	S	F	H	D	G	G	V	Q	I	S	C	N	Y	P	E	T	V	Q	Q	50			
rat mutant	M	K	P	Y	P	S	C	V	F	V	V	F	C	F	L	I	K	L	T	G	E	L	N	D	L	A	N	H	R	M	F	S	F	H	D	G	G	V	Q	I	S	C	N	Y	P	E	T	V	Q	Q	50			
mouse	M	K	P	Y	P	F	C	H	V	F	V	F	C	F	L	I	R	L	L	T	G	E	I	N	G	S	A	D	H	R	M	F	S	F	H	N	G	G	V	Q	I	S	C	K	Y	P	E	T	V	Q	Q	50		
consensus	M	K	P	Y	P	.	.	V	F	V	V	F	C	F	L	I	K	L	T	G	E	.	N	.	A	N	H	R	M	F	S	F	H	.	G	G	V	Q	I	S	C	.	Y	P	E	T	V	Q	Q	50				
human	F	K	M	Q	L	L	K	G	G	Q	Q	I	L	C	D	L	T	K	T	K	G	S	G	N	T	V	S	I	K	S	L	K	F	C	H	S	Q	L	S	N	N	S	V	S	F	F	L	Y	N	L	D	100		
rat	L	K	M	Q	L	L	F	K	D	R	E	V	L	C	D	L	T	K	T	K	G	S	G	N	T	V	S	I	K	N	P	M	S	C	P	Y	Q	L	S	N	N	S	V	S	F	F	L	D	N	A	D	100		
rat mutant	L	K	M	Q	L	L	F	K	D	R	E	V	L	C	D	L	T	K	T	K	G	S	G	N	T	V	S	I	K	N	P	M	S	C	P	Y	Q	L	S	N	N	S	V	S	F	F	L	D	N	A	D	100		
mouse	L	K	M	R	L	L	F	R	E	R	E	V	L	C	E	L	T	K	T	K	G	S	G	N	A	V	S	I	K	N	P	M	L	C	L	Y	H	L	S	N	N	S	V	S	F	F	L	N	P	D	100			
consensus	L	K	M	Q	L	L	F	K	.	R	E	V	L	C	D	L	T	K	T	K	G	S	G	N	T	V	S	I	K	N	P	M	.	C	.	Y	Q	L	S	N	N	S	V	S	F	F	L	N	.	D	100			
human	H	S	H	A	N	Y	Y	F	C	N	N	L	S	I	F	D	P	P	P	P	F	Q	K	-	V	T	L	T	G	G	Y	L	H	I	Y	E	S	Q	L	C	C	Q	L	K	F	W	L	P	I	G	C	A	A	149
rat	S	S	Q	G	S	Y	F	L	C	S	S	L	S	I	F	D	P	P	P	P	F	Q	E	K	N	L	S	G	G	Y	L	L	I	Y	E	S	Q	L	C	C	Q	L	K	L	W	L	P	V	G	C	A	A	150	
rat mutant	S	S	Q	G	S	Y	F	L	C	S	S	L	S	I	F	D	P	P	P	P	F	Q	E	K	N	L	S	G	G	Y	L	L	I	Y	E	S	Q	L	C	C	Q	L	K	L	W	L	P	V	G	C	A	A	150	
mouse	S	S	Q	G	S	Y	Y	F	C	S	S	L	S	I	F	D	P	P	P	P	F	Q	E	R	N	L	S	G	G	Y	L	H	I	Y	E	S	Q	L	C	C	Q	L	K	L	W	L	P	V	G	L	P	A	150	
consensus	S	S	Q	G	S	Y	.	C	S	S	L	S	I	F	D	P	P	P	P	F	Q	Q	E	N	L	S	G	G	Y	L	.	I	Y	E	S	Q	L	C	C	Q	L	K	L	W	L	P	V	G	C	A	A	150		
human	F	V	V	V	C	I	L	G	C	I	I	L	I	C	W	L	T	K	K	K	Y	S	S	S	V	H	D	P	N	G	E	Y	M	F	M	R	R	A	V	N	T	A	K	K	S	R	L	T	D	V	T	L	199	
rat	F	V	A	A	L	L	P	G	C	I	I	F	I	V	W	F	A	K	K	K	Y	R	R	S	S	V	H	D	P	N	S	E	Y	M	F	M	A	A	V	N	T	N	K	K	S	R	L	A	G	M	T	S	200	
rat mutant	F	V	A	A	L	L	P	G	C	I	I	F	I	V	W	F	A	K	K	K	Y	R	R	S	S	V	H	D	P	N	S	E	Y	M	F	M	A	A	V	N	T	N	K	K	S	R	L	A	G	T	A	P	200	
mouse	F	V	V	V	L	L	F	G	C	I	I	L	I	I	W	F	S	K	K	K	Y	G	S	S	S	V	H	D	P	N	S	E	Y	M	F	M	A	A	V	N	T	N	K	K	S	R	L	A	G	V	T	S	200	
consensus	F	V	.	L	L	F	G	C	I	I	.	I	.	W	F	.	K	K	K	Y	.	S	S	S	V	H	D	P	N	S	E	Y	M	F	M	A	A	V	N	T	N	K	K	S	R	L	A	G	.	T	.	200		
human	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	199					
rat	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	200						
rat mutant	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	200						
mouse	L	R	A	L	G	R	G	E	H	S	C	Q	D	R	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	200				
consensus	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	216					

[illegible]

Figure 12

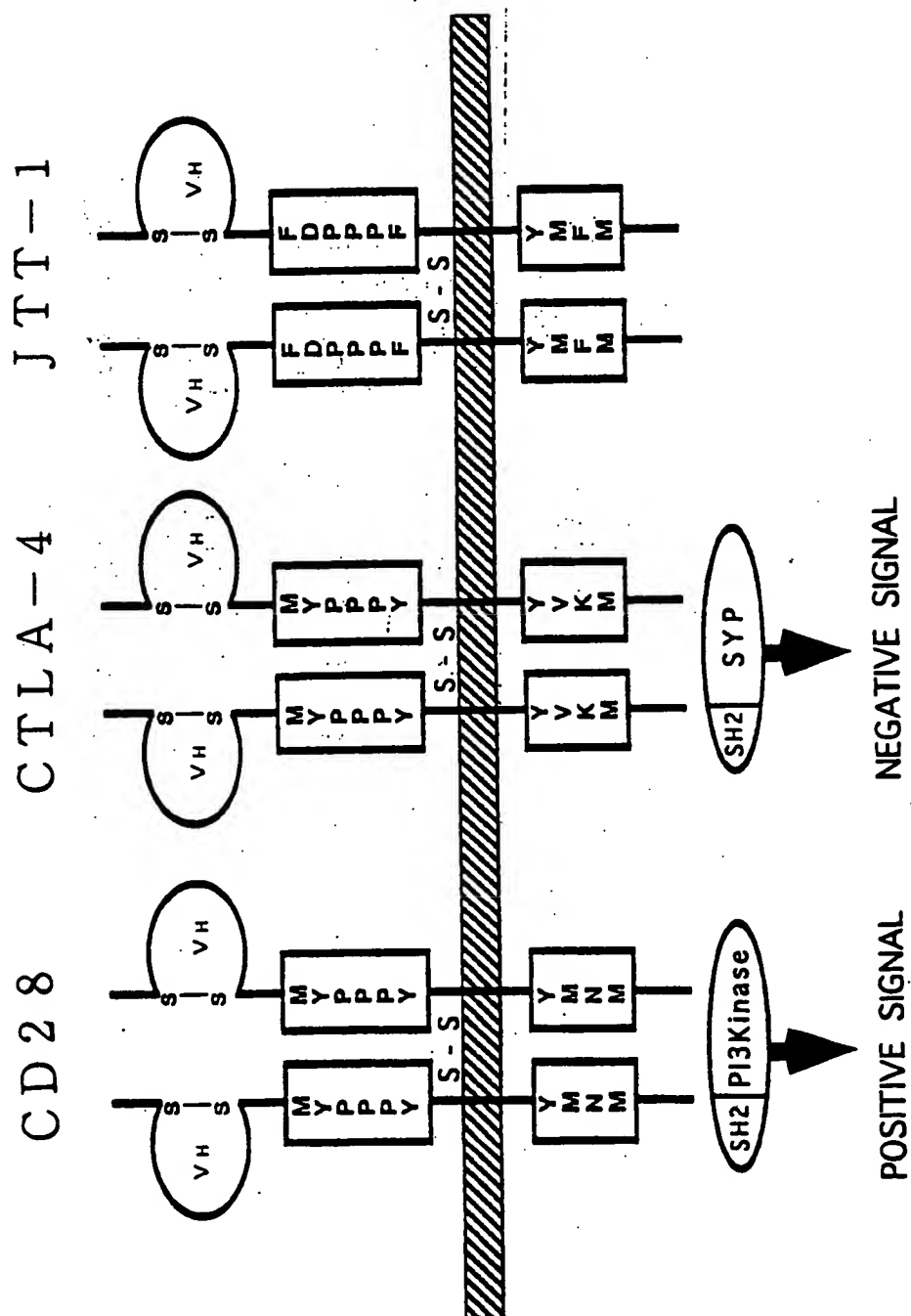
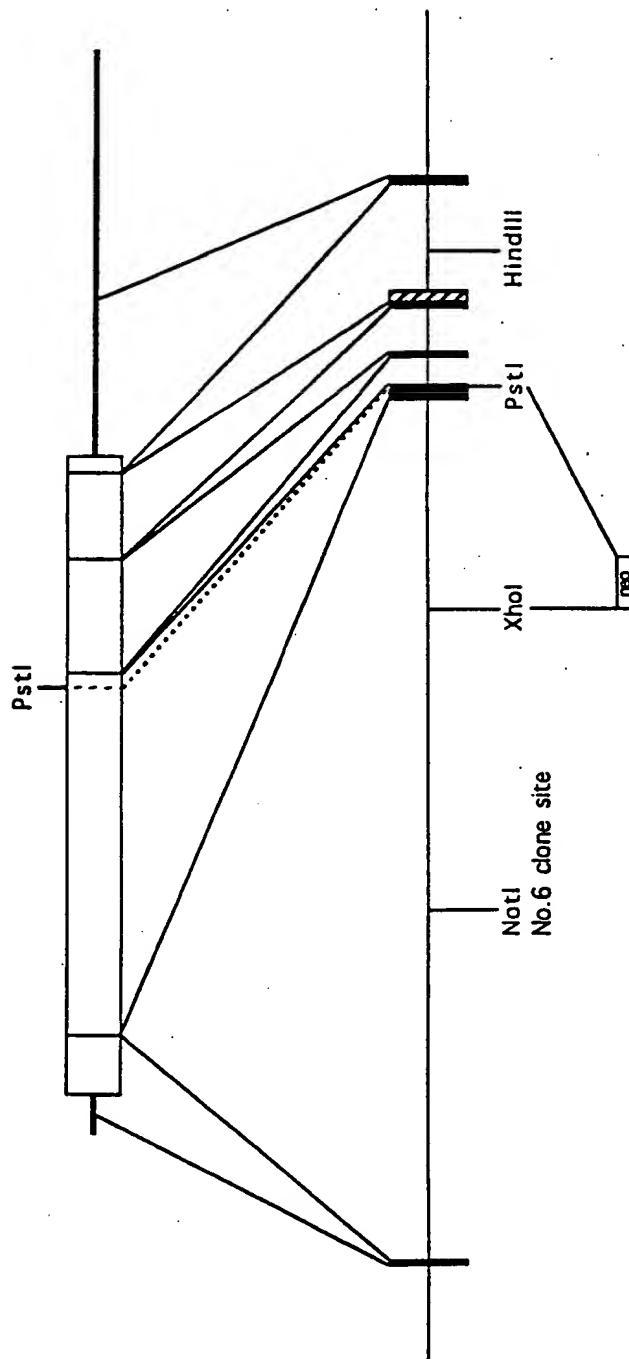


Figure 13



669280-1358E60

Figure 14

659280" T55E8E60

rat	50	
rat mutant	50	
consensus	50	
rat	100	
rat mutant	100	
consensus	100	
rat	150	
rat mutant	150	
consensus	150	
rat	200	
rat mutant	200	
consensus	200	
rat	200	
rat mutant	216	
consensus	216	

Figure 15

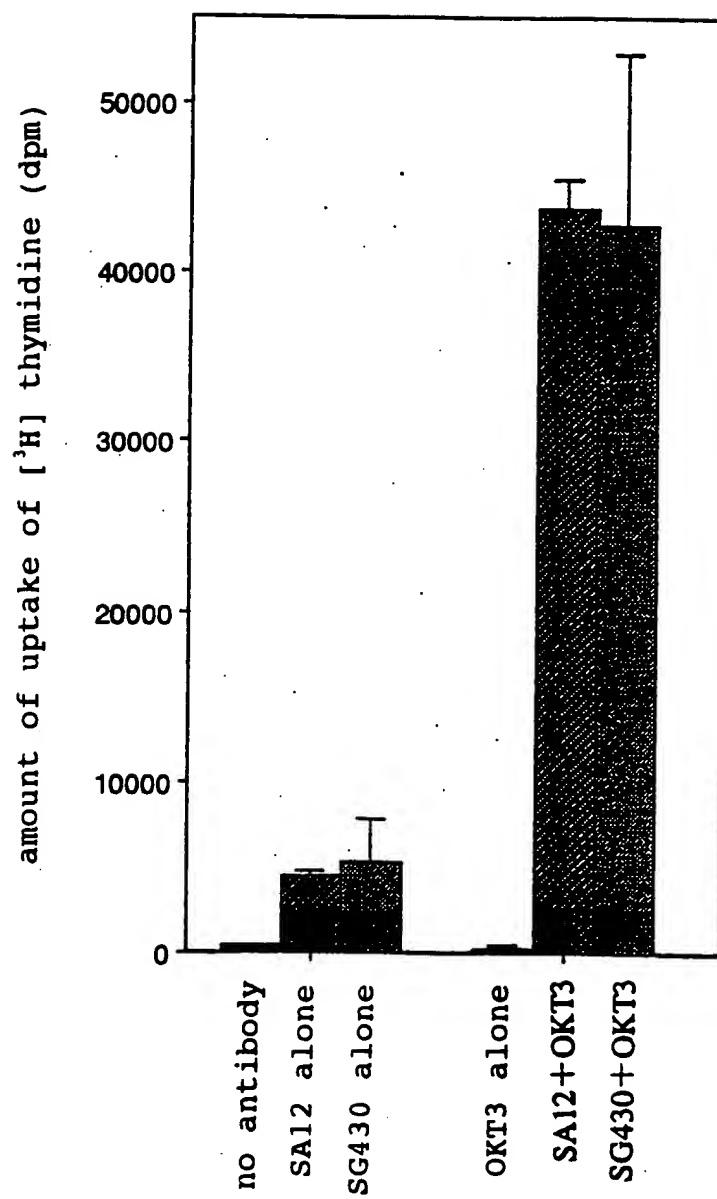


Figure 16

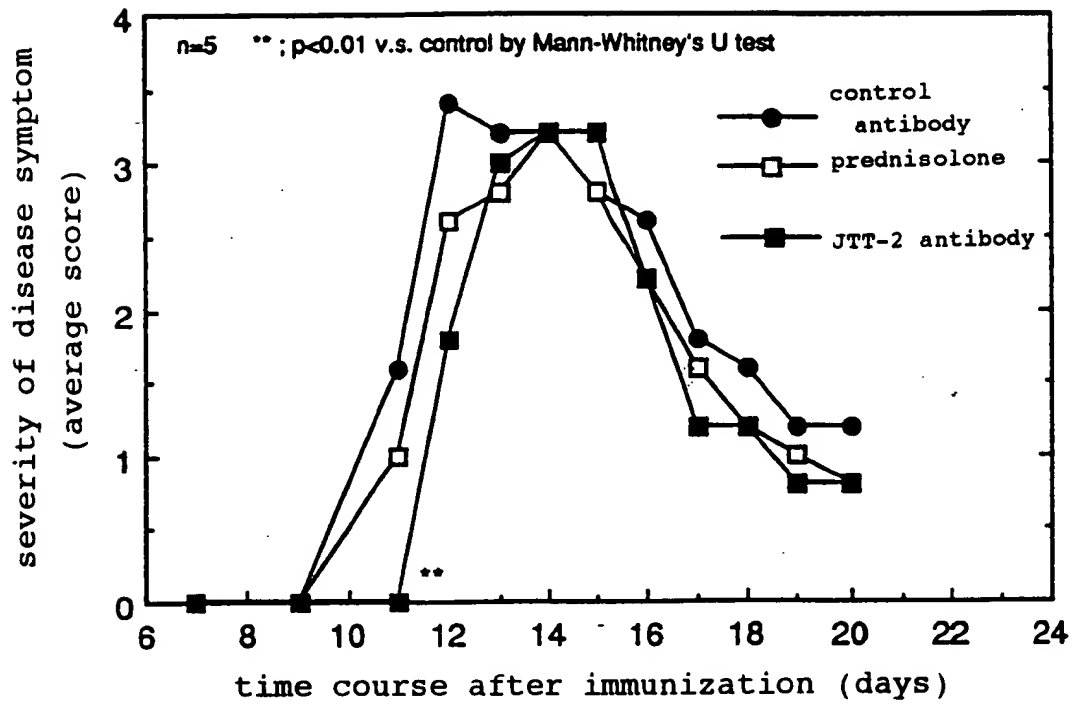


Figure 17

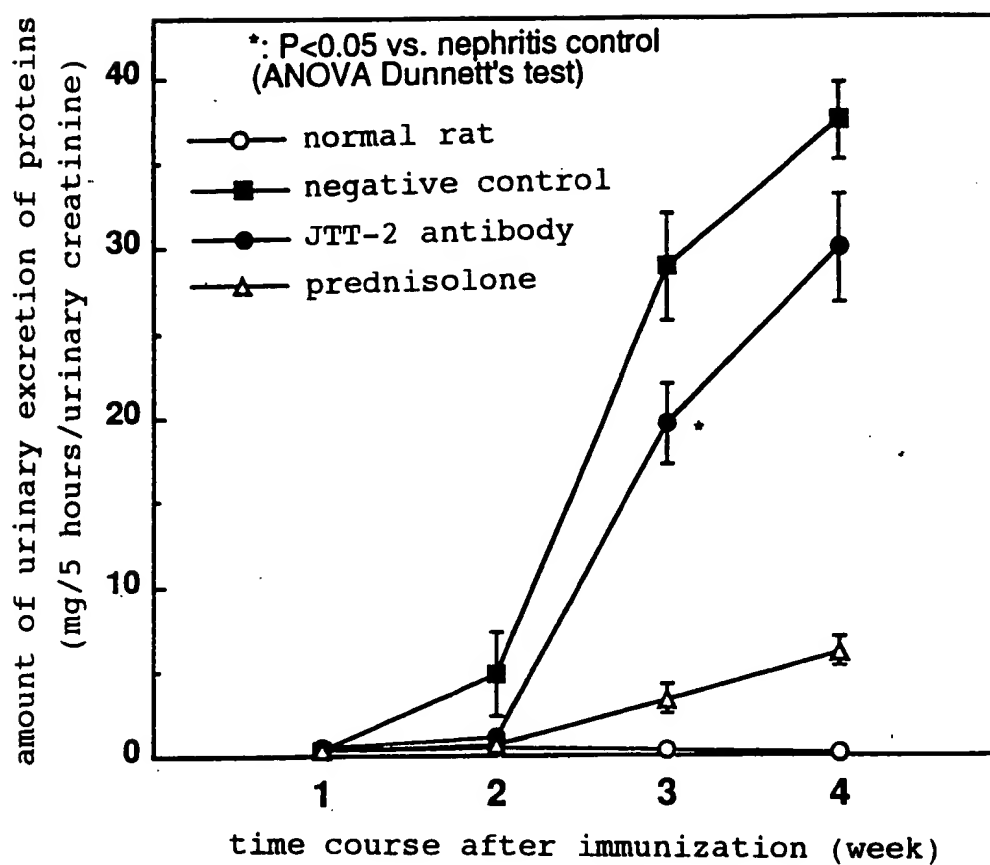


Figure 18

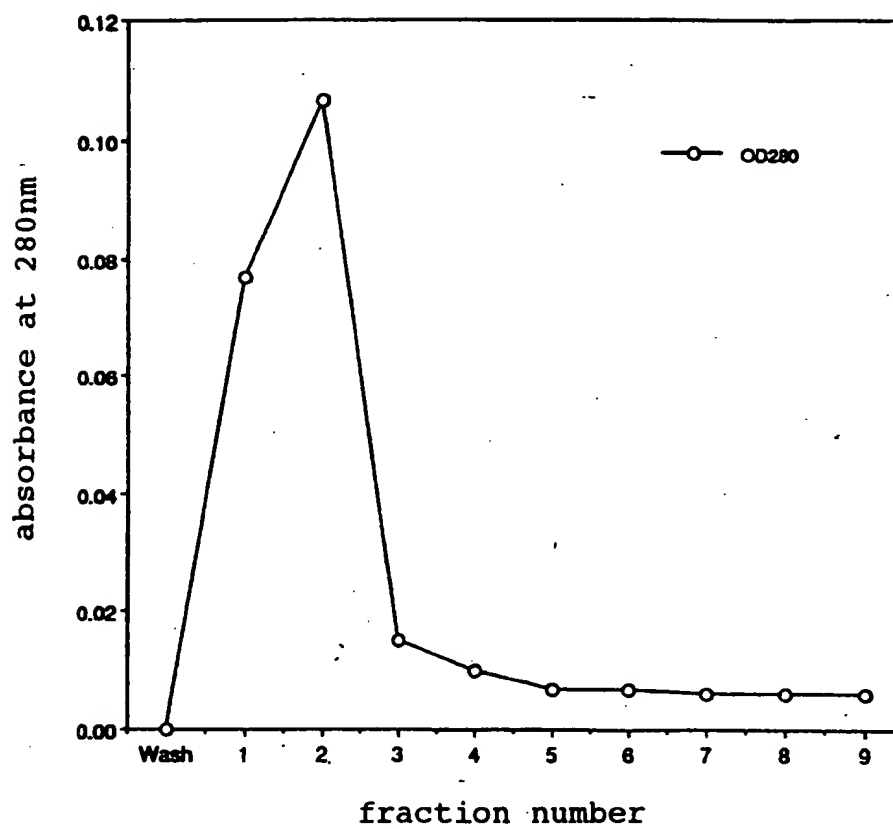
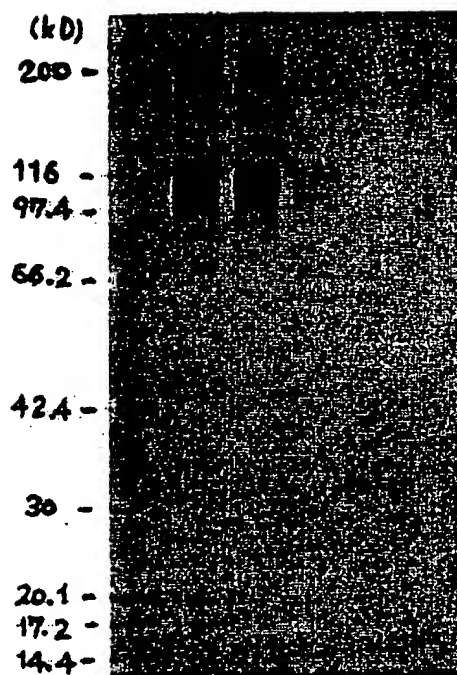
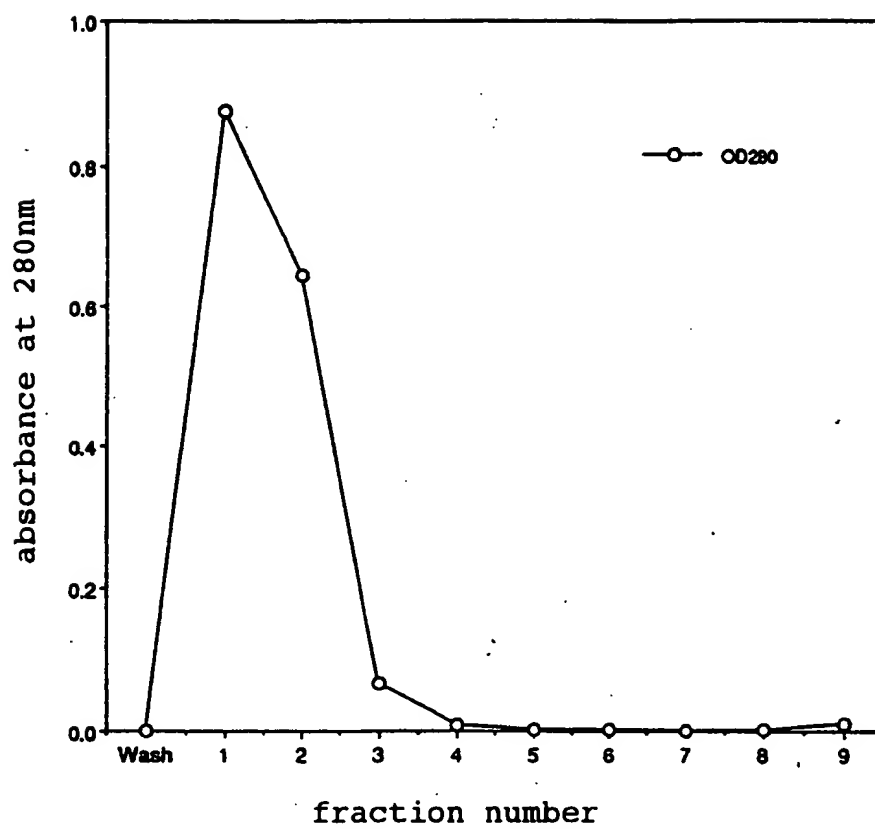


Figure 19



09383551.082699

Figure 20



669280" TSEB60

Figure 21

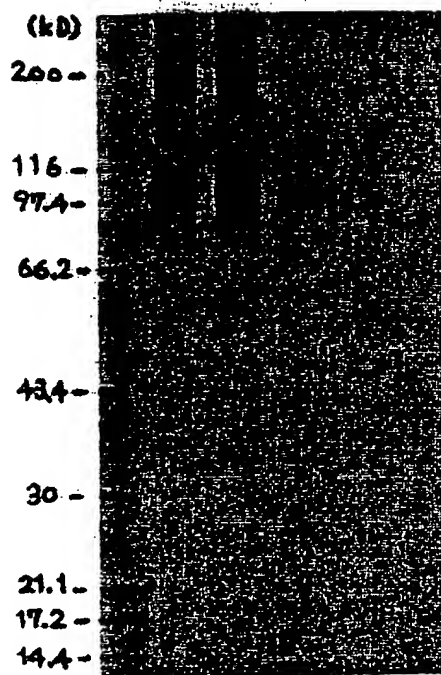
09383551.082699
669280"1558560

Figure 22

